

Amateur
Antenna Catalog

 **Larsen®**
The Clear Choice™

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No-Nonsense Warranty™

Larsen will repair or replace, without charge, any Larsen Antenna which fails within three years of the purchase date. Larsen is not responsible for any incidental or consequential damages due to failure of the antenna under this warranty or any implied warranty. This exclusion may not apply in all areas of the USA or Canada.

In the application of its "No-Nonsense Warranty" it is the intent of Larsen to always use the yardstick of the Golden Rule.

For service under warranty, return the antenna to your Larsen dealer or to the factory with a note describing the problem. You may reach Larsen Customer Service at 800-426-1656, Monday through Friday, 7 am to 5 pm Pacific time.

Full Line & Parts Information

Larsen produces thousands of antenna combinations. This amateur catalog lists the most popular models. For information on the full range of Larsen Antenna products, contact your Larsen dealer, local Larsen sales representative or the factory office.

Nearly every component of a Larsen Antenna is available on a replacement basis. Contact your local dealer for parts as needed.

Ordering Information

The Larsen Modular System allows you to order product in two ways:

1. Order components and combine antennas, mounts and connectors as needed
2. Order complete antenna kits if that's more convenient

Complete product breakdowns are shown in the full Larsen Catalog or Price Book.

Ordering example:

NMO 150 K

This is the complete antenna with permanent mount, RG 58A/U coax and a PL 259 connector.

NMO 150

This is the antenna whip and base, specifying type of mount (NMO) and frequency.

NMO K NOCONN

This is the mount and cable kit, NMO type, to match the antenna, specifying CX type coax (RG 58A/U).

PL 259

This the PL connector added to the package.

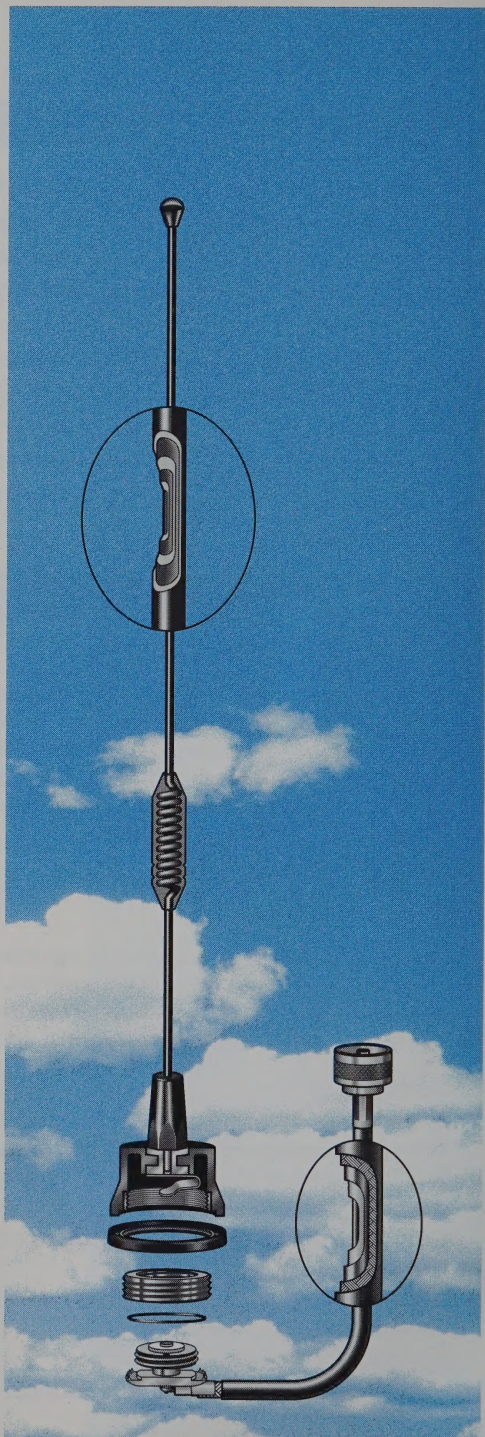
Introduction

High Performance Heritage

Since 1965, the Larsen name has meant performance in professional antennas. Founder Jim Larsen's (W7DZL, K7GE) passion for amateur radio helped create a reputation for making antennas with greater range and outstanding quality. He expressed the performance commitment to the customer by providing "Golden Rule" service. Today, Larsen Electronics produces more than 1,000 antenna models from 27 MHz to 2 GHz for the most demanding international, commercial and amateur applications.

Innovative Technical Design

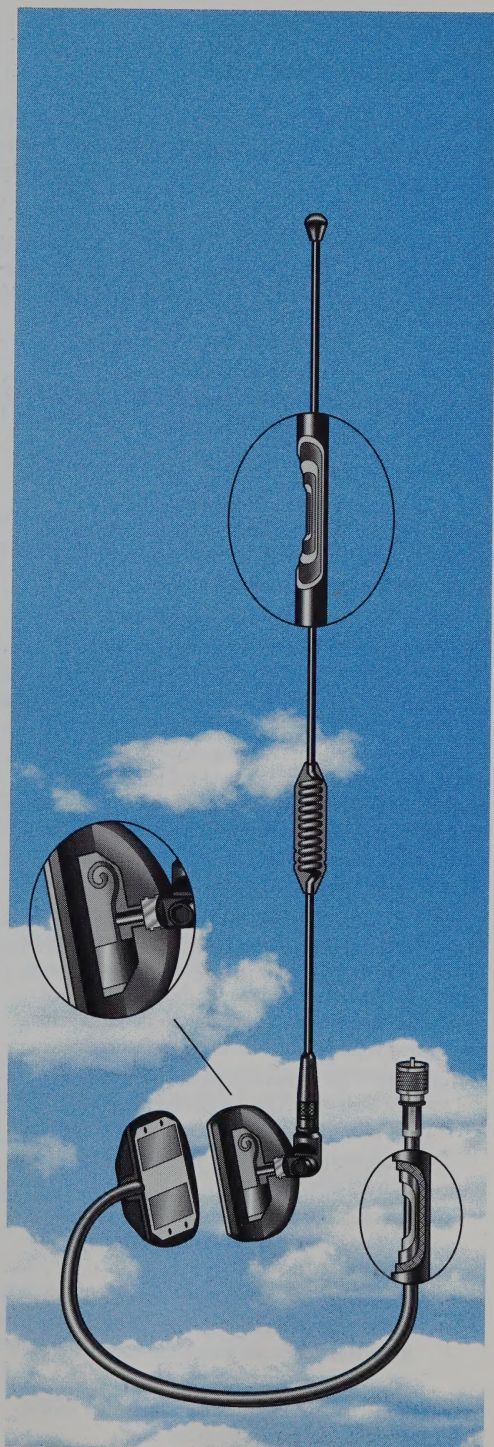
Antenna development is a blend of science and art. Over the years, Larsen engineering has developed a variety of patents, trademarked processes and unique designs. All to produce the finest performing antenna possible for today's sophisticated amateur. Technical achievement and use of advanced materials play a major role in electrical efficiency (greater range) and mechanical strength (durability). Innovations of note include:



All of Larsen's whips use our trademarked copper plating process. When plain steel whips are used for antennas, much of the radio's transmit power is wasted as heat when passing through the steel rod. By placing a unique coating of nickel and copper on the rod, Larsen whips take the radio power and pass it through the conductive copper plating. The result is more RF signal, not heat.

Larsen antenna bases and shells use an advanced polymer plastic called Makroblend. Today, this state-of-the-art material is a better choice than Lexan plastics due to its physical durability and environmental resistance.

Today's advanced radios offer outstanding transmission quality. Many operate with state-of-the-art digital components which demand low noise environments for best operation. Larsen's new premium quality Digi-Shield coax is expressly designed for those requirements. Digi-Shield uses 100% duofoil aluminum shielding with 95% braid coverage for low loss and superior performance. It is also available with teflon dielectric for installations with lots of mechanical stress. Digi-Shield helps with radio performance and reduces the RF influence on vehicle electronics.



Technical Guide

Frequency Bands

Larsen amateur antennas are available in the following bands:

10m	27 - 30 MHz
6m	50 - 54 MHz
2m	144 - 148 MHz
1.25m	220 - 224 MHz
70cm	440 - 450 MHz
35cm	902 - 928 MHz
23cm	1215 - 1300 MHz

Not all antennas are available in all bands. Consult the product listings for specifications.

Electrical Types

1/4 Wave—A single radiating element 1/4 wavelength long. It is the simplest type of antenna. A loading or matching coil is not required. Typical gain is unity when mounted on suitable ground plane.

Loaded 1/4 Wave—By using a loading coil that places a portion of the circuit at the base, the loaded 1/4 wave is able to use a shorter radiating element. Typical gain is comparable to fender mounted regular 1/4 wave when the loaded 1/4 wave is roof mounted.

1/2 Wave—A single radiating element 1/2 wavelength long. Because the end fed impedance of the antenna is not suitable for matching the radio, an impedance matching transformer is used at the base of the radiating element. Suitable for no ground plane use with unity gain; 2.4 dBd gain with a ground plane.

5/8 Wave—A single radiating element 5/8 wavelength long. The 5/8 wave has the best performance from a single element with 3 dBd gain with a suitable ground plane. Because the end fed impedance of the antenna is not suitable for matching the radio, an impedance matching transformer is used at the base of the radiating element.

4 Collinear—Two elements separated by a phasing coil for increased gain. Three styles are common :

- (1) 5/8 over 1/2: top element is 5/8 wave and the bottom is 1/2 wave; 4.5 dBd gain; no transformer required.
- (2) 5/8 over 1/4: top element is 5/8 wave and bottom element is 1/4 wave; 3 dBd gain; no transformer required.
- (3) 5/8 over 5/8 over 1/4: both elements are 5/8 wave; 5 dBd gain on suitable ground plane; end fed impedance does not match the transmitter's impedance, so a transformer is used.

VSWR—All Larsen antennas operate with a VSWR of 1.5 to 1 or less across the transmit bands.



Series Designations

You'll find a wide variety of antenna types available for your amateur application. Each will provide excellent performance when properly used. Each has its own advantages depending upon your physical and electrical requirements.

NMO

The NMO mount, the most popular mounting style, is a permanent 3/4" hole compatible with Motorola standard TAD/TAE mounts. Larsen NMO mounts are premium quality designs using brass for conductivity with nickel-tin plated steel for strength with no corrosion. Coax is fully soldered to mount.

LM

The Larsen Mount (LM), the industry standard 5/16"-24 THDS stud mount, uses a permanent 3/4" hole. Larsen developed the industry's first stud mounts for simple installation, reliable durability and low noise.

NLA

The NLA is a 3/8" hole mount compatible with snap-in type antennas. This is the basic GE style with good electrical properties. NLA antennas can be used on the Antenna Specialist K-49 or K-57 mounts.

PO/PHW

The PO is a permanent, 5/8" hole mount. The antenna fits on either an SO-239 or the PO mount. The PHW is a half-wave suitable for use at no ground plane. It is a "portable" antenna with a flexible cable whip that can be hung from any elevated object, so it is good for outdoor applications. Fits on PL-239 connector.

OM

Self mounting OM uses a 3/8" permanent hole. Coax is pre-installed inside the coil. This mount is ideal for non-metallic, no ground plane surfaces. Mounts with three self-tapping screws or nuts/bolts.

KG

Kūlglass™ glass mount style for standard vehicle use; no holes required. Superior performance from patented, low-impedance design has less than 0.5 dB loss vs a roof-top mount. Superior grip to glass using 3M's best adhesive plus a unique bonding fluid. May be removed and remounted.

BSA/FB

Omni-directional base stations fit PL-259 connectors; all mounting hardware included. Compact designs are sturdy and weather resistant yet light weight. May be easily moved.

YA

Directional Yagi antennas; available with N or PL connector; all mounting hardware included. Rugged, fully welded design using dual wall aluminum booms stand up to weather and wind extremes.

KD

Kūlduckie™ portable antennas; most common with BNC; dozens of mount options available. Superior performance from copper/brass radiating elements, fully soldered construction, silver contacts, double-spring BNC. All are scope-tuned.

Mobiles 10m



6

Model	NLA 27	NMO 27
Frequency Range	27-30 MHz	27-30 MHz
Gain	Unity	Unity
Electrical Type	Loaded 1/4 Wave	Loaded 1/4 Wave
Impedance	50 ohms	50 ohms
Power Rating	200 watts	200 watts
Mount Type	3/8" Hole	3/4" Hole
Height	52 1/4"	52 1/4"
Comments		

Mobiles 6m



7

PO 27

27-30 MHz
 Unity
 Loaded 1/4 Wave
 50 ohms
 200 watts
 3/4" Hole
 52 1/4"

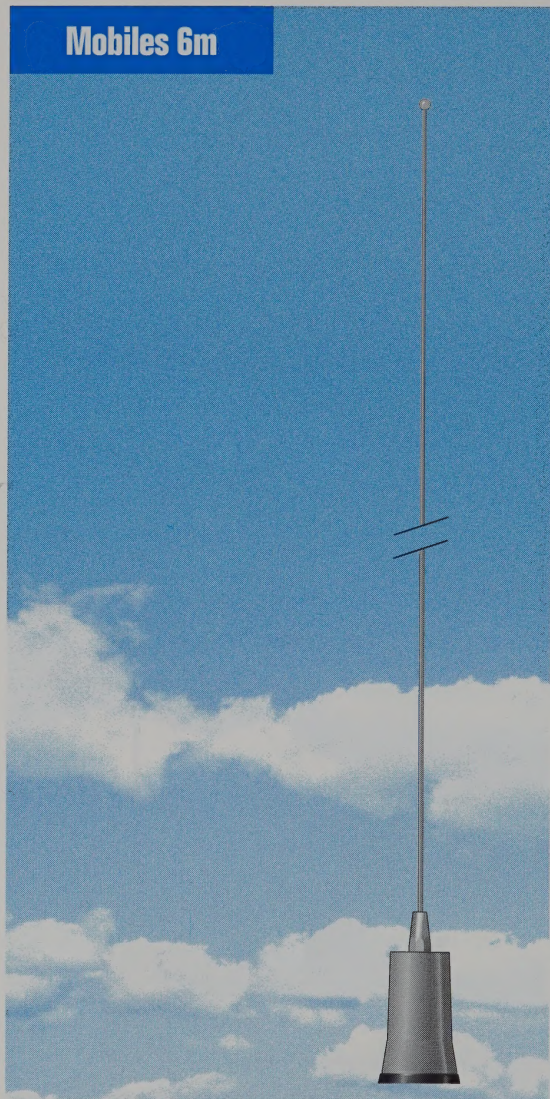
NLA 50

47-54 MHz
 Unity
 Loaded 1/4 Wave
 50 ohms
 200 watts
 3/8" Hole
 51 3/4"

NMO 50

47-54 MHz
 Unity
 Loaded 1/4 Wave
 50 ohms
 200 watts
 3/4" Hole
 51 3/4"

Mobiles 6m



Mobiles 2m



Model

PO 50

KG 144

Frequency Range

47-54 MHz

144-174 MHz

Gain

Unity

2.4 dBd

Electrical Type

Loaded 1/4 Wave

1/2 Wave

Impedance

50 ohms

50 ohms

Power Rating

200 watts

100 watts

Mount Type

3/4" Hole

Glass Mount

Height

51 3/4"

48"

Comments

Ground Plane Required
For Gain



LM 150
144-174 MHz
3 dBd
5/8 Wave
50 ohms
200 watts
3/4" Hole
53 3/4"

NLA 150
144-174 MHz
3 dBd
5/8 Wave
50 ohms
200 watts
3/8" Hole
50 3/4"

NMO 150
144-174 MHz
3 dBd
5/8 Wave
50 ohms
200 watts
3/4" Hole
50 3/4"



Model

NMO 150 HW

OM 150 K

Frequency Range

144-174 MHz

144-174 MHz

Gain

2.4 dBd

2.4 dBd

Electrical Type

1/2 Wave

1/2 Wave

Impedance

50 ohms

50 ohms

Power Rating

200 watts

200 watts

Mount Type

3/4" Hole

Self Mount 3/8" Hole

Height

50 3/4"

51 1/4"

Comments

Ground Plane Required
For Gain

Ground Plane Required
For Gain


PO 150

144-174 MHz

3 dBd

5/8 Wave

50 ohms

200 watts

3/4" Hole

51 1/8"

PHW 150

144-174 MHz

2.4 dBd

1/2 Wave

50 ohms

200 watts

PL 259 Connector

51 1/8"

 Ground Plane Required
For Gain. "Flex" Cable Whip.

LM 220

220-225 MHz

3 dBd

5/8 Wave

50 ohms

200 watts

3/4" Hole

33 3/4"

Mobiles 1.25m



12

Model	NMO 220	OM 220 K
Frequency Range	220-225 MHz	220-225 MHz
Gain	3 dBd	2.4 dBd
Electrical Type	5/8 Wave	1/2 Wave
Impedance	50 ohms	50 ohms
Power Rating	200 watts	200 watts
Mount Type	3/4" Hole	3/8" Hole Self Mount
Base/Max Height	33 3/4"	34 1/4"
Comments		Ground Plane Required For Gain

Mobiles 70cm



PO 220

220-225 MHz

3 dBd

5/8 Wave

50 ohms

200 watts

3/4" Hole

34 1/8"

KG 440

440-460 MHz

2.4 dBd

1/2 Wave

50 ohms

100 watts

Glass Mount

13 3/4"

Ground Plane Required
For Gain

LM 440

440-460 MHz

4.5 dBd

5/8 over 1/2 Wave

50 ohms

200 watts

3/4" Hole

30 5/8"

Mobiles 70cm



Model

LMC 4400

NMO 440

Frequency Range

440-460 MHz

440-460 MHz

Gain

4.5 dBd

4.5 dBd

Electrical Type

5/8 over 1/2 Wave

5/8 over 1/2 Wave

Impedance

50 ohms

50 ohms

Power Rating

200 watts

200 watts

Mount Type

LA or LM Mount

3/4" Hole

Height

29 1/8"

30 1/4"

Comments

**PO 440**

440-460 MHz

4.5 dBd

5/8 over 1/2 Wave

50 ohms

200 watts

3/4" Hole

31 3/4"

Mobiles 35cm



Model

KG 900

LM 900

Frequency Range

865-970 MHz

865-965 MHz

Gain

3 dBd

4.5 dBd

Electrical Type

5/8 over 1/2 Wave

5/8 over 1/2 Wave

Impedance

50 ohms

50 ohms

Power Rating

50 watts

150 watts

Mount Type

Glass Mount

3/4" Hole

Height

18 5/8"

13 1/4"

Comments

Ground Plane Required
For Gain

Mobiles 23cm



17

NMO 900

865-965 MHz

4.5 dBd

5/8 over 1/2 Wave

50 ohms

150 watts

3/4" Hole

12 3/4"

KG 1290

1240-1300 MHz

3 dBd

5/8 over 1/2 Wave

50 ohms

50 watts

Glass Mount

10 1/4"

Ground Plane Required
For Gain

NMO 1290 B

1240-1300 MHz

5 dBd

5/8 over 5/8 over 1/4 Wave

50 ohms

200 watts

3/4" Hole

17"

Mobiles 1/4 Wave



18

Model	BNCQ	NLAQ
Frequency Range	144-512 MHz	144-512 MHz
Gain	Unity	Unity
Electrical Type	1/4 Wave	1/4 Wave
Impedance	50 ohms	50 ohms
Power Rating	200 watts	200 watts
Mount Type	Fits BNC Female Connector	3/8" Hole
Height	22"	22 1/8"
Comments	Trim to Frequency	Trim to Frequency



NMOQ
144-512 MHz
Unity
1/4 Wave
50 ohms
200 watts
3/4" Hole
22 1/8"
Trim to Frequency

NMOQ SPEC
144-512 MHz
Unity
1/4 Wave
50 ohms
200 watts
3/4" Hole
21"
Trim to Frequency

Q
144-512 MHz
Unity
1/4 Wave
50 ohms
200 watts
LA or LM Mount
21"
Trim to Frequency

Dual Band 2m/7cm



Model

KG 2/70

NLA 2/70

Frequency Range

144-148/442-448 MHz

144-148/440-450 MHz

Gain

2.5 / 4.5dBd

2.4 / 4 dBd

Electrical Type

1/2 Wave/Collinear

5/8 Wave/Collinear

Impedance

50 ohms

50 ohms

Power Rating

50 watts

100 watts

Mount Type

Glass Mount

3/8" Hole

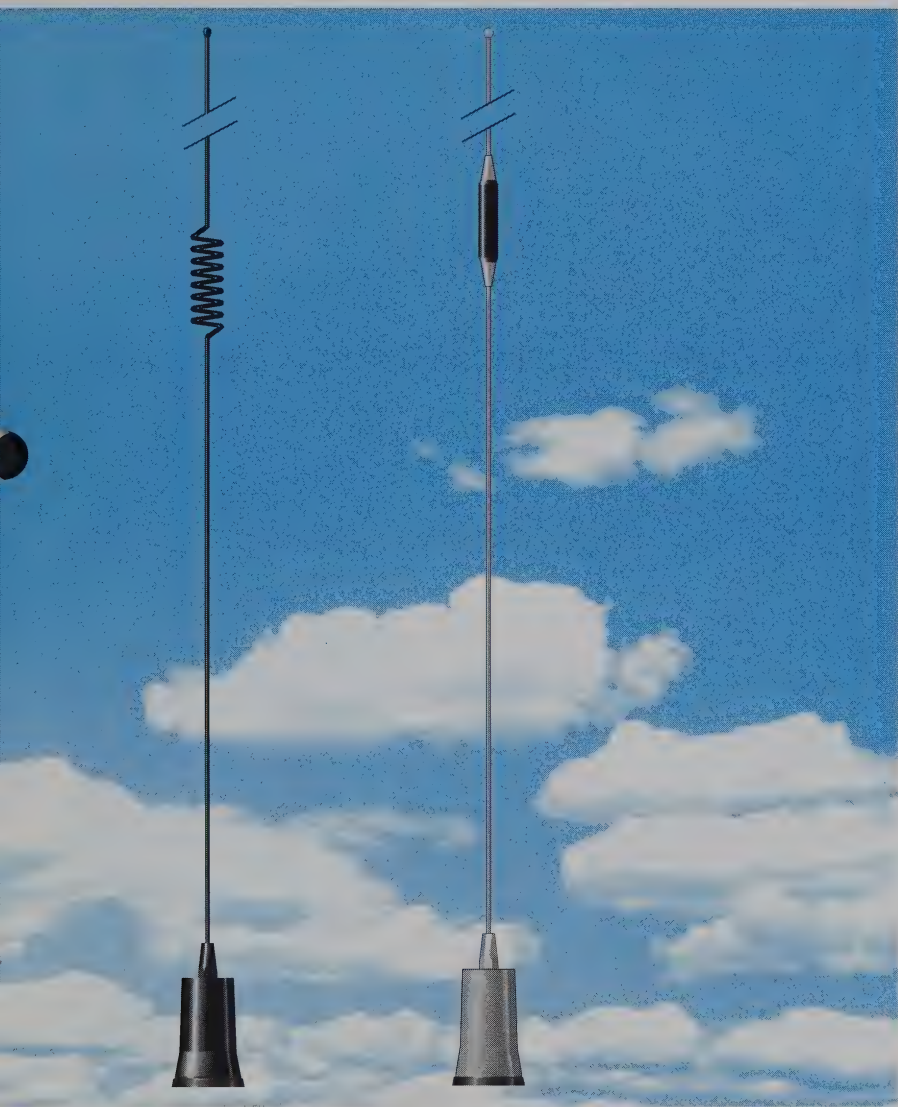
Height

32 3/4"

36 3/4"

Comments

Ground Plane Required
For Gain



NMO 2/70 B

144-148/440-450 MHz

2.4 / 4 dBd

5/8 Wave/Collinear

50 ohms

100 watts

3/4" Hole

36 3/4"

PO 2/70

144-148/440-450 MHz

2.4 / 4 dBd

5/8 Wave/Collinear

50 ohms

100 watts

3/4" Hole

36 1/2"

Dual band antennas require a dual band coupler. See accessories for Larsen AD 2/70 specifications.

Permanent Mounts

NMO Mount

The Larsen version NMO mount is the only industry mount combining the strength of steel teeth with the superior conductivity of a brass contact ring. A unique plating process (nickel/tin) applied to the steel eliminates the corrosion problems common with differing metals. Fully soldered coax increases the mechanical durability of the mount. Order connector separately. Thick surface versions available.

Mount Only	Part No. NMO B
Mount, 17' CX coax, PL 259	Part No. NMO K

LM/CM Mount

Larsen's own stud mount has no chance for vibration. The result is low noise operation. The 3/4" hole size mount is easy to work with and simple to install. Order connector separately. Thick surface versions available.

Mount Only	Part No. LM/CM B
Mount, 17' CX coax, PL 259	Part No. LM/CM K

NLA Mount

The new Larsen antenna (NLA) is an all brass, 3/8" hole, snap-in mount. The 3/8" hole can be drilled with standard bits. The cable attaches inside the mount reducing stress. Order connector separately.

Mount Only, no coax	Part No. NLA B
Mount, 17' CX coax, PL 259	Part No. NLA K

PO Mount

The PO is an SO-239 UHF style mount. This permanent 3/4" hole mount is constructed of chrome plated brass. Order connector separately.

Mount Only, no coax	Part No. PO B
Mount, 17' CX coax, PL 259	Part No. PO K



Temporary Mounts

MM

Heavy duty rectangular magnetic mount; 50# pull strength; teflon tape backer protects vehicle; black; 58FPC standard.

Part No. NMO MM	Part No. LM/CM MM
Part No. NLA MM	Part No. PO MM

MM R

Compact styled round mag mount; 90# pull strength; teflon tape backer protects vehicle; black; 58FCP standard.

Part No. NMO MM R	Part No. PO MM R
Part No. LM/CM MM R	

TLM

Heavy duty trunk lid mount with set screw attachment; proper height to de-couple antenna from trunk surface; aluminum construction standard with bright finish; for black version specify "B" after part number; PL 259 standard.

Part No. NMO TLM	Part No. LM/CM TLM
Part No. NLA TLM	Part No. PO TLM

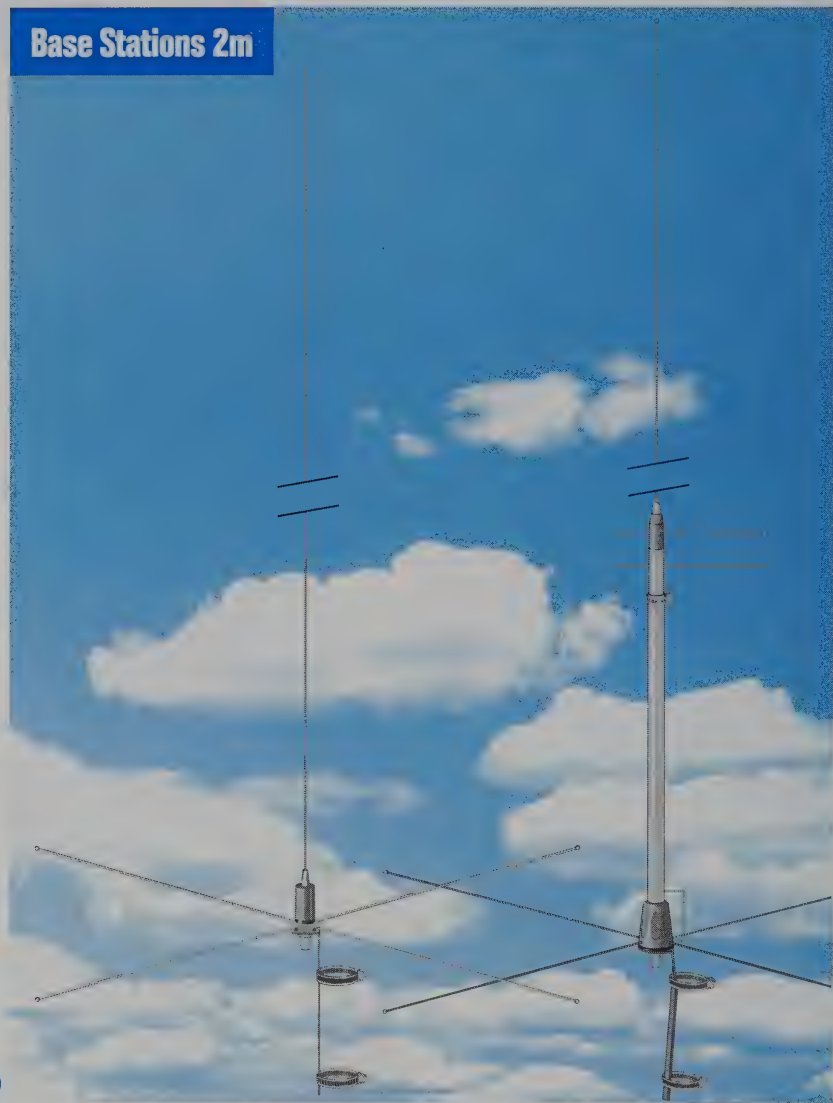
TMB

Sturdy trunk gutter mount bracket; permanent screws, not visible from outside of vehicle; electro polished stainless steel, standard in bright finish; for black version, specify "B" after part number; PL 259 standard.

Part No. NMO TMB	Part No. LM/CM TMB
Part No. NLA TMB	Part No. PO TMB



Base Stations 2m



24

Model	BSA 150	FB1 136
Frequency Range	144-174 MHz	136-230 MHz
Gain	3 dBd	4.5 dBd
Electrical Type	5/8 Wave	5/8 over 1/2 Wave
Impedance	50 ohms	50 ohms
Power Rating	200 watts	200 watts
Mount Type	Base Mount Kit Included	Base Mount Kit Included
Height	51 5/8"	96"
Comments		

Base Stations 1.25m

Base Stations 70cm



25

BSA 220

220-225 MHz
3 dBd
5/8 Wave
50 ohms
200 watts
Base Mount Kit Included
33 3/4"

BSA 440

440-460 MHz
4.5 dBd
5/8 over 1/2 Wave
50 ohms
200 watts
Base Mount Kit Included
30"

FB2 440

440-460 MHz
3 dBd
5/8 over 1/4 Wave
50 ohms
200 watts
Base Mount Kit Included
30 1/4"

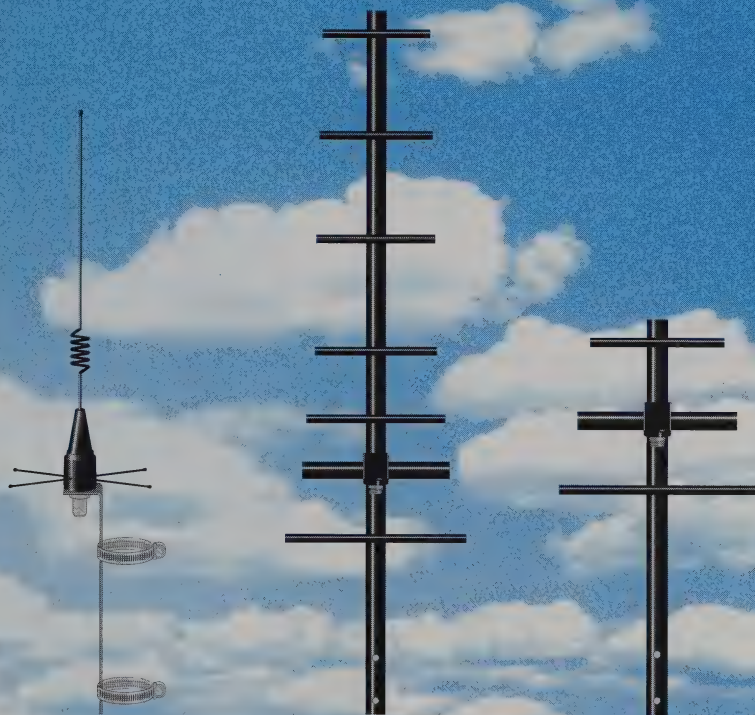
Base Stations 70cm



26

Model	YA1 440 PL (or N)	YA2 440 PL (or N)
Frequency Range	440-460 MHz	440-460 MHz
Gain	11 dBd	8.5 dBd
Electrical Type	8-Element Directional	5-Element Directional
Impedance	50 ohms	50 ohms
Power Rating	300 watts	300 watts
Mount Type	Base Mount Kit Included	Base Mount Kit Included
Length or Height	57 1/4"	35 3/4"
Comments	Select PL or N Connector	Select PL or N Connector

Base Stations 35cm



27

FB2 900
865-965 MHz
3 dBd
5/8 over 1/4 Wave
50 ohms
200 watts
Base Mount Kit Included
12 1/4"

YA5 900
865-965 MHz
12 dBd
7 Element Directional
50 ohms
300 watts
Base Mount Kit Included
29 1/4"

YA6 900
865-965 MHz
6 dBd
3 Element Directional
50 ohms
300 watts
Base Mount Kit Included
16 1/2"

Base Accessories

Stackkit

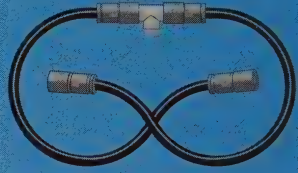
Combine even number of yagis to increase gain. One kit will join two yagis; three will join 4; etc.

YA1, YA2; UHF connector	Part No. Stackkit PL
YA1, YA2; N connector	Part No. Stackkit N
YA5, YA6; N connector	Part No. Stackkit 900

QSD

Quarter-wave shorting device protects base stations from lightning and yet is transparent at its design frequency. Available with N or UHF connector. One end of QSD is a T adapter to existing 50 ohm transmission line while other end has heavy brass threaded ferule for connection to grounding system.

UHF connector	Part No. QSD UHF
N connector	Part No. QSD N



Portable 2m



29

Model	KD4 146	KD4 146 HQ
Frequency Range	144-148 MHz	144-148 MHz
Gain	Unity	Unity
Electrical Type	1/4 Wave, Helical	Helical, 1/4 Wave,
Impedance	50 ohms	50 ohms
Power Rating	25 watts	25 watts
Mount Type	BNC Male	BNC Male
Height	8"	10 1/2"
Comments	Order KD4 136 For 35 ohms ICOM Radios	Order KD4 136 For 35 ohms ICOM Radios

Portable 2m



30

Model	KD4 146 ST	KD14 2M HW
Frequency Range	144-148 MHz	144-148 MHz
Gain	Unity	Unity
Electrical Type	1/4 Wave, Stout	1/2 Wave, Telescoping
Impedance	50 ohms	50 ohms
Power Rating	25 watts	25 watts
Mount Type	BNC Male	BNC Male
Height	3 1/2"	8 1/2" to 42"
Comments	Order KD4 136 For 35 ohms ICOM Radios	

Dual Band 2m/70cm



31

KD4 2/70

144-148/442-448 MHz

Unity

1/4 Wave/Loaded 1/4 Wave

50 ohms

25 watts

BNC Male

8 "

Loaded 1/4 Wave at VHF
And 1/4 Wave at UHF

Portable 1.25cm



32

Model	KD4 220	KD4 220 HQ
Frequency Range	222-224 MHz	222-224 MHz
Gain	Unity	Unity
Electrical Type	1/4 Wave, Helical	1/4 Wave, Helical
Impedance	50 ohms	50 ohms
Power Rating	25 watts	25 watts
Mount Type	BNC Male	BNC Male
Height	5"	9"
Comments		

Portable 70cm



33

KD4 220 ST

222-224 MHz

Unity

1/4 Wave, Stout

50 ohms

25 watts

BNC Male

3 1/2"

KD4 446

442-448 MHz

Unity

1/4 Wave, Helical

50 ohms

25 watts

BNC Male

3"

KD14 446

442-448 MHz

Unity

1/4 Wave

50 ohms

25 watts

BNC Male

6 1/2"

Accessories

Coax

RG-58 A/U is a stranded center conductor coax that serves well as a high quality, low cost coax for most applications below 512 MHz. The stranded center conductor offers very good flexibility and long life under most conditions.

RG-58A/U stranded	Part No. CX Coax
-------------------	------------------

Premium RG 58 A/U coax with stranded center conductor. Same specifications as UD COAX. This coax is ideal with magnetic mounts, trunk lid mounts, and trunk mount brackets due to the extra durability of the stranded center conductor.

RG-58A/U Oval Shield	Part No. DS Coax
----------------------	------------------

Larsen "Digi-Shield" RG 58/U dual shield coax. The best coax for low noise requirements. Solid center conductor, polyethylene dielectric; 100% duofoil aluminum shield, 95% tinned copper braid, PVC jacket.

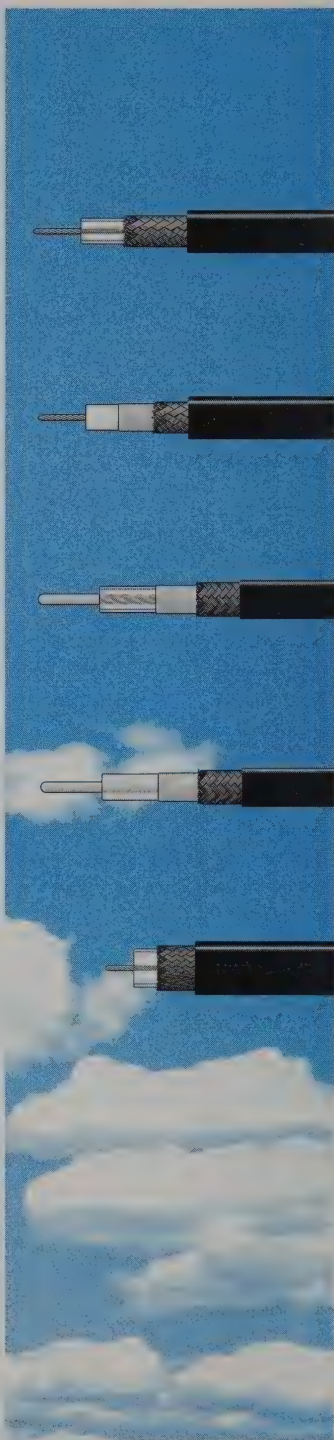
RG-58/U Digi-shield	Part No. UD Coax
---------------------	------------------

"Digi-Shield/Tef" RG 58/U dual shield teflon coax. For applications where cable will be exposed to high temperatures or physical stress. Same specifications as UD COAX with teflon dielectric.

RG-58/U Digi-shield,	Part No. DT Coax
----------------------	------------------

This RG-8 sized coax uses a stranded center conductor, polyethelene dielectric and non-contaminating black PVC jacket that makes it ideal for outdoor applications when it will be exposed to ultraviolet light. Good for use between 27 and 900 MHz.

RG-213 Stranded	Part No. RG 213 Coax
-----------------	----------------------



Connectors

A wide variety of precision quality connectors are available for all Larsen antennas. Contact the factory for all options. Popular models for 800 & 900 MHz applications include:

Mini UHF	a. Part No. MPL Crimp
TNC Male	b. Part No. TNC Crimp
N Male	c. Part No. N Crimp
UHF	d. Part No. PL 259
Pliers Install PL	e. Part No. 58FCP
Universal	f. FME Crimp

Miscellaneous

Rain Caps

Makroblend threaded rain caps install on permanent mounts to protect from rust and corrosion whenever the antenna is removed.

NMO Mounts	Part No. NMO CAP B
LM/CM Mounts	Part No. LM CAP B
NLA Mounts	Part No. NLA Cap B

Dual Band Coupler

A bi-directional passive coupler required for use with dual band antennas. Splits the spectrum, delivering VHF to the VHF radio and UHF signal to the UHF side. Isolation between VHF and UHF is 50 dB.

Part No. AD 2/70

On-Glass Reinstall

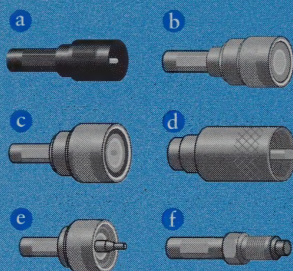
For all glass mount antennas. Includes adhesive tape trimmable to fit any antenna brand. Also has allen wrenches, alcohol wipes, bonding fluid and instructions.

Part No. KG Reinstall

Kilduckie Magnetic Mount

Attach a portable antenna to the mag mount for use outside the vehicle and connect coax to the transceiver. BNC connectors on the mag and coax. Comes with 12' of RG 58 A/U.

Part No. BNC MM BNC



LARSEN ELECTRONICS, INC.

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C A N A D I A N

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